

**What is claimed is:**

1. A method for dispensing a radioactive liquid, for dispensing a necessary amount of radioactive liquid, comprising the steps of:

5       measuring radioactivity concentration of the radioactive liquid; and  
          controlling an amount of dispensation.

2. The method for dispensing a radioactive liquid according to claim 1, wherein

10       said radioactivity concentration of the radioactive liquid is measured when the radioactive liquid pass through a tube constituting a channel of the radioactive liquid.

3. An apparatus for dispensing a radioactive liquid for dispensing a necessary amount of radioactive liquid, the

15       apparatus comprising:

          a first detector measuring radioactivity concentration of the radioactive liquid; and

          a controller controlling an amount of dispensation based on the measurement.

20       4. The apparatus for dispensing a radioactive liquid according to claim 3, wherein

          said first detector measures the radioactivity concentration of the radioactive liquid passing through a tube constituting a channel of the radioactive liquid.

5. A method for dispensing and administering a radioactive liquid for dispensing a necessary amount of radioactive liquid from a container and administering the same, the method comprising the steps of:

5        dispensing the necessary amount from the container by using the dispensing method according to claim 1 or 2, immediately before administration;

         holding the entire amount of the radioactive liquid just dispensed temporarily in a radiation-shielded liquid

10    holding part;

         measuring an amount of radioactivity of the radioactive liquid held in the liquid holding part; and

         administering the entire amount of radioactive liquid.

6. An apparatus for dispensing and administering a

15    radioactive liquid for dispensing a necessary amount of radioactive liquid from a container and administering the same, the apparatus comprising:

         the dispensing apparatus according to claim 3 or 4, for dispensing the necessary amount from the container

20    immediately before administration;

         a liquid holding part capable of holding the entire amount of radioactive liquid just dispensed temporarily;

         a second detector measuring an amount of radioactivity of the radioactive liquid held in the liquid holding part;

and

administering device administering the entire amount of radioactive liquid after the radioactivity measurement.

7. The apparatus for dispensing and administering a  
5 radioactive liquid according to claim 6,

further comprising a third detector detecting attenuation in the radioactivity concentration of the radioactive liquid and/or a passage of the radioactive liquid, provided to the channel of the radioactive liquid.